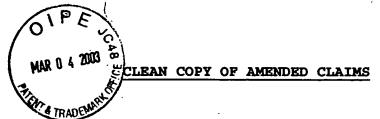## IN THE DRAWINGS:

Formal drawings have been previously submitted.

IN THE CLAIMS:

Please amend claims 1, 5-8, 10, 12, 13, 14.

Claims 11 and 15 remain as-is.

1.   A system for downloading firmware from a source module onto a controller of a storage medium with minimal latency of operation comprising:

(a) first source software means providing SCSI firmware for a disk drive and servo SCSI firmware for positioning said disk drive;

(b) second software means for providing a central processing unit having a selection means for choosing hardware simulated single or dual two-dimensional array means for temporary storing said SCSI firmware prior to placement onto a target peripheral controller for said disk drive;

(c) third software means for temporarily storing a different version of said firmware until said target controller has been accessed to identify the proper version of firmware required;

(d) fourth software means for checking the pre-existing firmware in said target controller to determine whether an updated firmware version will be required for a subsequent download.

4.   A system for downloading SCSI firmware and servo firmware in a rapid fashion onto a target control module, said system comprising:

(a)   a source software means for said firmware and SCSI servo firmware;

(b)   software simulated central processing means for receiving said firmware from said source software means and utilizing a software emulated local memory means for separate storage areas for said SCSI firmware and for said servo firmware;

(c)   connection means from said software emulated local memory means over to a selected one of a plurality of disk drives for temporary storage;

(d)   peripheral controller means for loading said SCSI firmware into a first flash PROM and for loading said servo SCSI firmware into a second servo flash PROM;

(e)   means to Write said firmware from said first flash and second flash PROMs onto a targeted peripheral controller for a disk unit.

5.   The system of claim 4 wherein said source software
means includes control data received from the World Wide Web.

6.   The system of claim 4 wherein said software
simulated central processing means includes:

> (b1)   software means for recognizing the number
> of bytes of firmware to be downloaded;

> (b2)   means for selecting a software emulated
> buffer   array   size   which   most   closely
> approximates said recognized number of bytes to
> be downloaded.

7.   The system of claim 4 wherein said software emulated
central processing means includes:

> (b3) software   inquiry   means   to   said   target
> controller   to   acquire   identification
> information;

> (b4)   software means to determine, from said
> identification information, what version of
> firmware will be downloaded to said target
> controller.

8.   A system for downloading the appropriate SCSI firmware onto a target module controller and overcoming the normal capacity limitations of temporary buffer storage comprising:

(a) software source means for providing microcode firmware for a target controller;

(b) software emulated processor means having a temporary implemented software first and second two-dimensional buffer array means for receiving and buffering said SCSI firmware and SCSI servo firmware destined for said target controller without adding any additional hardware;

(c) software control means for transferring said SCSI firmware and servo firmware onto a targeted peripheral controller for a disk unit;

(d) a library exported interface (USERMAINTREQUEST) for issuing a download command request and an inquiry command to query the said target controller;

(e) software means to access the appropriate firmware release numbers and servo release numbers to enable a selection of the appropriately proper firmware;

(f) software selection means for selecting the appropriate size of said temporary implemented software first and second two-dimensional buffer array means to most efficiently store said selected proper firmware.

10.   The system of claim 8 wherein said inquiry command includes:

(g) means to check and compare the pre-existing firmware in said target controller to determine whether new updated firmware is required.

11.   The system of claim 8 which includes means for checking to indicate that the proper firmware has been downloaded to the proper target controller module.

12.   A software method of selecting and downloading the
appropriate SCSI firmware and servo firmware for a selected
target control module comprising the steps of:

(a)   providing a plurality of separate software
emulated   temporary   storage   media   for   holding
different versions of SCSI firmware appropriate for
different types of target control modules;

(b)   utilizing   a   DFAST   utility   program   for
initiating a firmware download to a target control
module, said DFAST program functioning to download
firmware to SCSI devices;

(c)   inquiring   as   to   the   identity   and   firmware
requirements of a selected target control module;

(d)   fetching, by said DFAST utility program, of the
appropriate firmware file from said storage media;

(e)   selecting a single or double temporary software
two-dimensional buffer array appropriate to the byte
count of said appropriately selected firmware for
temporary storage;

(f)   downloading the selected firmware by said DFAST
utility onto said target control module.

13.   The method of claim 12 wherein step (c) includes the
step of:

(c1) checking the pre-existing firmware in said
target controller to determine whether or not
said pre-existing firmware requires any
updating from the selected firmware on the
selected storage media.

14.   A   system   utilizing   software   means   for   rapid downloading, in one command cycle, of SCSI firmware and servo firmware into a target control module, comprising:

(a)   first   software   means   for   initiating   a   SCSI Inquiry Command to said target control module via a Command Descriptor Block;

(b)   second   software   means   to   query   a   designated target control module with information from a Page Code Field;

(c)   third software means for enabling access to and acquiring   a   firmware   page   number   and   a   firmware version number for said target control module;

(d)   downloading   said   SCSI   firmware   data   using selected   sizes   of   software   implemented   two-dimensional buffer arrays;

(e)   passing   said   SCSI   firmware   data   onto   said target control module.

15. (As-Is) The system of claim 14 which includes:

(f) means to sense when said SCSI Inquiry Command initiates an illegal request.